

# **SDMS US EPA REGION V -1**

**SOME IMAGES WITHIN THIS  
DOCUMENT MAY BE ILLEGIBLE  
DUE TO BAD SOURCE  
DOCUMENTS.**

E5

N.D

144650

EXHIBIT "A"

000060

S324

卷之三

This Indian and Portuguese. Thus the greater Louis - Native name of St. Louis, Rio Parana, is a separation or rather a partition under the law of the state of Bahia, for one is a continuation of the other of the river - 17,000 in length. Ceara and Paraiba to the right - or Remanso - Ilheus - for native purposes, the following separated from Itapicuru.

卷之三

and 2010 and remained in the same in 2010 as in 2009. The number of households in the same period increased by 11.2% or 1,122 units. The number of households per household decreased by 0.7% or 0.07 units. The average household size was 2.70 in 2010 and 2.73 in 2009.

*Leath - Feltz & Company*  
by Michael J. Leath  
Vice-President  
A. J. Feltz: A. J. Feltz  
President

— १२० —

THE CONSTITUTION OF THE UNITED STATES

000368

326

33000

SUBDIVISION

DEAD

CREEK

910.45'

225.75'

219.80'

SET IRON BAR

CUT CROSS  
CONCRETE PAL

180.7

1160.33'

STADE

6100. 336.18'

1850.30'

SET IRON BAR ON HAN

OLD PIPE ON BANK

1.5+

1.5+

1.5+

1.5+

1.5+

1.5+

CUT CROSS

CUT CROSS

CUT CROSS

CUT CROSS

CUT CROSS

CUT CROSS

A.T. 215.45'  
240.48'  
979.92'

LOT 211

9580

EXHIBIT "B"

000363

S327

*part of Village Hall Property*

TRACT 1: That part of Lots 126 and 127, Commonfields of Cahokia, said tract being part of the Village Hall property of the Village of Sauget, St. Clair County, Illinois, described as follows:

Commencing at a pipe on the West line of Falling Springs Avenue, said pipe bears South  $4^{\circ}02'$  West of the iron bar that marks the intersection of the Northeast corner of Lot 126, Commonfields of Cahokia with the West line of Falling Springs Avenue; thence North  $85^{\circ}58'$  West, perpendicular to the last described line, a distance of 58.88' to the iron bar that marks the point of beginning of the tract of land herein described; thence continuing North  $85^{\circ}58'$  West, a distance of 161.12' to the pipe that marks the Northwest corner of the Village Hall property; thence South  $4^{\circ}02'$  West, perpendicular to the last described line, a distance of 60.00' to an iron bar; said point being on the curve having a radius of 320', said 320' radius being parallel and adjacent to and 20' South and Southeast of the former centerline of the vacated Midwest Avenue; thence in a Northeasterly direction, around the curve to the left having a radius of 320' a chord distance of 179.94' to the iron bar that marks the point of beginning. Containing 0.175 Acres, more or less.

Situated in the County of St. Clair and State of Illinois.  
Subject to conditions, easements and restrictions of record;

*71 1/2*  
*10 1/2*  
*Former Lewis Mathes Co.*  
*Rev'd & Back To*  
*Chas.*

TRACT 2: A triangular tract situated in Lot 210 of the Third Subd. of Cahokia Commons, reference being had to a plat of said Third Subd. of Cahokia Commons recorded in the Recorder's Office of St. Clair County, Illinois in Book of Plats "A" on page 60, said tract being more particularly described as follows:

That part of said Lot 210 that lies south and southeasterly of the southerly right of way line of Midwest Avenue as established by Ordinance No. 182 of the Village of Monsanto, Illinois, approved June 3, 1948 reference thereto being had and reference also being had to the conveyance made July 26-1948 by Lewin Mathes Company to the Village of Monsanto conveying the 66 foot wide strip across said Lot 210 as right of way for said Midwest Avenue; bounded on the south by a line that is 20 feet north of and parallel to the Southerly line of said Lot 210 and bounded on the east by the easterly line of said Lot 210, containing 0.75 Acres more or less.

Situated in the County of St. Clair and State of Illinois.  
Subject to conditions, easements and restrictions of record;

on or before Tuesday, January 21-1969, at 7 o'clock P. M. at the Village Hall in Sauget, Illinois.

TRACT 1 will be conveyed by Warranty Deed, and TRACT 2 will be conveyed by Quit Claim Deed. Both conveyances will be subject to conditions, easements and restrictions of record. Said real estate is not used for any corporate purpose and is vacant property.

**EXHIBIT "C"**

00000000

**S329**

PART OF LOT

211

(C)

PART OF LOT

210

155.1

116.33

A = 24.48.  
T. = 215.45.  
R. = 979.92'

241.4'

219.80' RECORD

215.45' REC.

215.45' REC.

Ord. 328  
Providing for  
full sale

& Deed - Vill of Saugey

to  
Cerro Corp

A 307509

593.10' RECORD  
MIDWEST

241.4'  
219.80'  
155.1

March 8<sup>th</sup>, 1970  
East St. Louis, Illinois

S330

This is to certify that in the employ of the Cerro Copper & Brass Company of Saugey, Illinois, I have and part of the Southerly boundary line of said company property, prepared the plat attached hereto from attached and titled "A PLAT OF PART OF LOTS 210, 211, 214, 215, 216, 219 & 222 OF THE THIRD SUBDIVISION thereto.

EXHIBIT "D"

Q0000000

**S331**

A-325 pg 3-3  
2161-A

2161-A pg 504

Adj/TJL

SUIT SLATE USED

THIS INDENTURE WITNESSETH, THAT THE GRANTOR,

VILLAGE OF SAULZ, A Municipal Corporation, of the County of St. Clare and State of Illinois, for and in consideration of the sum of ONE HUNDRED EIGHTY, NO DOLLARS, in said date, Current and Due Classes

... OF PLATTEVILLE, WISCONSIN, AND MARY ANN GLEED GUTHRIE, a single Person, Counterpart, with office in Town and City of St. Clare and State of Illinois, the following done, witness and seal.

A indenture first reciting that I, No. 410 of the First Series, of Cabellia Green Name, residence being said to be a Village of said First Series, of Cabellia Green Committee record, in the Recorder's Office of St. Clare County, Illinois, in Book of Plat "A" on page 40, and street being street particularly described as follows:

The said lot No. 410 has been sold and remitted by me to the property of the Village of Milwaukee, Illinois, represented by Orlieke Johnson, the said property and residence also being had in the ownership of said Orlieke Johnson by Lorraine Johnson Coughlin, in the Village of Milwaukee, having the same value of one hundred and one thousand dollars, or \$101.00, and payment to be made by a time date to all have and to pay to me for the property of said lot No. 410 one thousand dollars, or \$1,000.00, on the date of this instrument.

Witnessed on the County of St. Clare and State of Illinois.

IN WITNESS WHEREOF, the said VILLAGE OF SAULZ, the instrument named in instrument said to be affixed, and those present to be signed by LEO SAUGET, its President, and attested by the Village Clerk,

this 1st day of February, A.D., 1900.

VILLAGE OF SAULZ,

A Municipal Corporation

Attest,



2161-A pg 504

2161-A pg 504

S332

**EXHIBIT "E"**

123460

**S333**

N/A  
page 2.

and part of Lots 125E and 125F of the "SUBDIVISION OF PART OF LOT 125 OF THE COMMON-FIELDS OF CAHOKIA"; reference being had to the plat thereof recorded in said Recorder's Office of St. Clair County, Illinois, in Book of Plats U on page 37; and part of Lots 126, 127 and 128 of the "CAHOKIA COMMON FIELDS"; reference being had to the plat thereof recorded in said Recorder's Office in Book of Plats E on pages 16 and 17; all being more fully described as follows, to-wit:

Beginning at the point of intersection of the Southeasterly Right of Way line of the Alton and Southern Railroad with the Easterly Right of Way line of State Bond Issue Route No. 3, sometimes called Mississippi Avenue, (now 90 feet wide); thence in a Northerly direction along the Easterly Right of Way line of State Bond Issue Route No. 3 a distance of 30.15 feet to a point which is 12 feet Southeasterly from and measured at right angles to the centerline of the main track of the Alton and Southern Railroad; thence in a Northeasterly direction with a line which is at every point 12 feet Southeasterly from and measured at right angles to said centerline, a distance of 564.79 feet to a point; thence in a Southeasterly direction at right angles to the last described line, a distance of 23 feet to a point in the Southeasterly Right of Way line of the Alton and Southern Railroad; thence in a Northeasterly direction along the Southeasterly Right of Way line of the Alton and Southern Railroad to a point distant 700.35 feet, more or less, measured in a straight line, from the intersection of said Right of Way line and the Northwesterly line of Lot 215 of said Subdivision; thence in a Northeasterly direction with a line that is at every point 13 feet Southeasterly from and measured at right angles to the centerline of Spur Tract No. 126, a distance of 152 feet, more or less, to a point opposite the point of switch to said tract No. 126 in the main track of the Railroad; thence continuing in a Northeasterly direction with a line that is at every point 13 feet southeasterly from and measured at right angles to the centerline of the main track, a distance of 144.91 feet to a point; thence in a Southeasterly direction at right angles to the last described line, a distance of 22 feet to the Southeasterly Right of Way line of the Alton and Southern Railroad; thence in a Northeasterly direction along the Southeasterly Right of Way line of the Alton and Southern Railroad to the South line of Lot 222 of the "THIRD SUBDIVISION OF THE CAHOKIA COMMONS"; thence North 68 degrees 46 minutes East along the Southeasterly Right of Way line of the Alton and Southern Railroad, a distance of 234.35 feet to the centerline of Dead Creek; thence continuing Northeasterly along the Southeasterly Right of Way line of the Alton and Southern Railroad, a distance of 336.33 feet to the most Northerly corner of Lot No. 1 in Block No. 1 of the "SUBDIVISION OF PART OF LOTS 125E AND ALL OF LOT 125G"; thence Southeasterly along a line of said Lot No. 1 in Block No. 1, a distance of 14.92 feet to the Westerly Right of Way line of State Aid Route No. 10, also known as Lower Cahokia Road; thence Southerly along the Westerly Right of Way line of said State Aid Route No. 10, a distance of 1221.32 feet, more or less, to the Northeasterly line of Lot No. 126 of the "CAHOKIA COMMON FIELDS"; thence South 4 degrees 02 minutes West along the Westerly line of said State Aid Route No. 10, a distance of 50 feet to a point; thence Westerly at right angles to the Westerly line of State Aid Route No. 10, a distance of 58.88 feet to a point; thence in a Southwesterly direction, around a curve to the left having a radius of 320 1-ft. said 320 feet radius being parallel and adjacent to and 20 feet South and Southeast of the former centerline of vacated Midwest Avenue, a chord distance of 179.94 feet to a point; thence South 4 degrees 02 minutes West and parallel with the Westerly Right of Way line of State Aid Route No. 10, a distance of 351.85 feet to the Northwesterly

page 3.

~~Right of Way line of Midwest Avenue; thence Southwesterly and Westerly along the Northwesterly and Northerly Right of Way line of Midwest Avenue, to its intersection with the Easterly Right of Way line of said State Bond Issue Route No. 3; thence Northerly along the Easterly Right of Way line of said State Bond Issue Route No. 3 to the point of beginning.~~

PARCEL 3.

A triangular tract situated in Lot 210 of the "SUBDIVISION OF PART OF COMMONS OF CAHOKIA OF SURVEY NO. 759"; reference being had to the plat thereof recorded in the Recorder's Office of St. Clair County, Illinois, in Book of Plats A on page 60, said tract being more particularly described as follows:

That part of said Lot 210 that lies South and Southeasterly of the Southerly Right of Way line of Midwest Avenue as established by Ordinance No. 182 of the Village of Monsanto, Illinois, approved June 22, 1948 and recorded July 1, 1948 in Corporation Record 35 on page 450, reference thereto being had; and reference also being had to the conveyance made July 26, 1948 by Lewin-Mathes Company to the Village of Monsanto conveying the 66 foot wide strip across said Lot 210 as Right of Way for said Midwest Avenue; bounded on the South by the Southerly line of said Lot 210 and bounded on the East by the Easterly line of said Lot 210.

All of the foregoing being situated in St. Clair County, Illinois.

C  
L  
E  
M  
S  
S336

EXHIBIT "G"

0002128

S339

**DA****Daily Analytical Laboratories**1621 W. Candelree Drive Peoria, Illinois 61614  
Tel. (309) 693-5252

Eugene J. Daily, Chairman

John P. Higgins, President

Otis E. Michaels, Vice President

James F. Dallmeyer

Laboratory Director

Sverdrup Corporation

DATE RECEIVED:

March 25, 1987

JOB NO. 10224A/400001

AREA "G"801 N. Eleventh  
St. Louis, MO. 63101

D/A PROJECT #:

5060.10

ATTEN: Mr. Larry Oliver DATE OF REPORT: May 11, 1987

D/A SAMPLE NO.

7084-102

## SAMPLE DESCRIPTION

DCGW32

## SAMPLE DATE

3/24/87

ALUMINUM	MG/L	0.06
ANTIMONY	MG/L	0.028
ARSENIC	MG/L	0.009
BARIUM	MG/L	0.14
BERYLLIUM	MG/L	<0.005
CADMIUM	MG/L	0.006
CHROMIUM	MG/L	<0.01
COBALT	MG/L	0.02
COPPER	MG/L	0.01
IRON	MG/L	32
LEAD	MG/L	0.05
MANGANESE	MG/L	2.0
MERCURY	MG/L	<0.0002
NICKEL	MG/L	0.06
TIN	MG/L	<0.02
SELENIUM	MG/L	0.022
THALLIUM	MG/L	0.04
VANADIUM	MG/L	0.0
ZINC	MG/L	0.06
CYANIDE	MG/L	<0.01
SPECIFIC COND.	umhos	6600
T. DISS. SOLIDS	MG/L	5200
ALKALINITY	MG/L	2300
BORON	MG/L	1.3

67379

S340

**DA****Daily Analytical Laboratories**1621 W. Candletree Drive Peoria, Illinois 61614  
Tel. (309) 692-5252

Eugene J. Dailey, Chairman  
John P. Higgins, President  
Otis E. Michela, Vice President  
James F. Dallmeyer  
Laboratory Director

Sverdrup Corporation

DATE RECEIVED: March 25, 1987

801 N. Eleventh  
St. Louis, MO. 63101

JOB NO. 10224A/400001

ATTEN: Mr. Larry Oliver

D/A PROJECT #: 5060.10

D/A SAMPLE NUMBER

7084-102

## SAMPLE DESCRIPTION

DCGW32

Sample Date

3/24/87

Analysis Date

4/2/87

CHLOROMETHANE	UG/L	<10
BROMOMETHANE	UG/L	<10
VINYL CHLORIDE	UG/L	20
CHLOROETHANE	UG/L	<10
METHYLENE CHLORIDE	UG/L	9B
1,1-DICHLOROETHENE	UG/L	<5
1,1-DICHLOROETHANE	UG/L	<5
tr-1,2-DICHLOROETHENE	UG/L	<5
CHLOROFORM	UG/L	32
1,2-DICHLOROETHANE	UG/L	<5
1,1,1-TRICHLOROETHANE	UG/L	11
CARBON TETRACHLORIDE	UG/L	<5
DICHLOROBROMOMETHANE	UG/L	<5
1,2-DICHLOROPROPANE	UG/L	<5
tr-1,3-DICHLOROPROPENE	UG/L	<5
TRICHLOROETHENE	UG/L	23
BENZENE	UG/L	470
CHLORODIBROMOMETHANE	UG/L	<5
cis-1,3-DICHLOROPROPENE	UG/L	<5
1,1,2-TRICHLOROETHANE	UG/L	<5
2-CHLOROETHYL VINYL ETHER	UG/L	<5
BROMOFORM	UG/L	<5
1,1,2,2-TETRACHLOROETHANE	UG/L	<5
TETRACHLOROETHENE	UG/L	6
TOLUENE	UG/L	110
CHLOROBENZENE	UG/L	270
ETHYLBENZENE	UG/L	790
XYLENE (TOTAL)	UG/L	560
ACETONE	UG/L	660B
CARBON DISULFIDE	UG/L	<10
2-BUTANONE	UG/L	<10
VINYL ACETATE	UG/L	<10
4-METHYL-2-PENTANONE	UG/L	<10
2-HEXANONE	UG/L	<10
STYRENE	UG/L	<10

\* as received basis

S341



Daily Analytical Laboratories  
1621 W. Candietree Drive Peoria, Illinois 61614  
Tel. (309) 692-5252

Eugene J. Daily, Chairman  
John P. Higgins, President  
Otis E. Michaels, Vice President  
James F. Dallmeyer  
Laboratory Director

Sverdrup Corporation

DATE RECEIVED: March 25, 1987

801 N. Eleventh  
St. Louis, MO. 63101

JOB NO. 10224A/400001

D/A PROJECT #: 5060.10

ATTEN: Mr. Larry Oliver DATE OF REPORT: May 11, 1987

D/A SAMPLE NUMBER

7084-102

SAMPLE DESCRIPTION

DC-GW-32

Sample Date	3/24/87
Extracted Date	3/27/87
Analysis Date	4/7/87

BIS(2-CHLOROETHYL)ETHER	UG/L	<10
1,3-DICHLOROBENZENE	UG/L	<10
1,4-DICHLOROBENZENE	UG/L	76
1,2-DICHLOROBENZENE	UG/L	21
BIS(2-CHLOROISOPROPYL)ETHER	UG/L	<10
N-NITROSODI-N-PROPYLAMINE	UG/L	<10
HEXACHLOROETHANE	UG/L	<10
NITROBENZENE	UG/L	<10
ISOPHORONE	UG/L	<10
BIS(2-CHLOROETHOXY)METHANE	UG/L	<10
1,2,4-TRICHLOROBENZENE	UG/L	12
HEXACHLOROBUTADIENE	UG/L	<10
HEXACHLOROCYCLOPENTADIENE	UG/L	<10
DIMETHYL PHTHALATE	UG/L	<10
2,6-DINITROTOLUENE	UG/L	<10
2,4-DINITROTOLUENE	UG/L	<10
4-CHLOROPHENYL PHENYL ETHER	UG/L	<10
DIETHYL PHTHALATE	UG/L	<10
N-NITROSODIPHENYLAMINE	UG/L	<10
4-BROMOPHENYL PHENYL ETHER	UG/L	<10
HEXACHLOROBENZENE	UG/L	<10
DI-N-BUTYL PHTHALATE	UG/L	<10
BUTYLBENZYL PHTHALATE	UG/L	<10
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	<10
3,3-DICHLOROBENZIDINE	UG/L	<20
DI-N-OCTYL PHTHALATE	UG/L	<10

OTHERS :

BENZYL ALCOHOL	UG/L	<10
4-CHLOROANILINE	UG/L	8400
2-NITROANILINE	UG/L	<50
3-NITROANILINE	UG/L	<50
4-NITROANILINE	UG/L	<50
DIBENZOFURAN	UG/L	<10

\* as received basis

00000  
00000  
00000

S342

**Daily Analytical Laboratories**

1621 W. Candelree Drive Peoria, Illinois 61614  
Tel. (309) 692-5252

Eugene J. Daily, Chairman  
John P. Higgins, President  
Otis E. Michela, Vice President  
James F. Dallmeyer  
Laboratory Director

Wordrup Corporation

DATE RECEIVED: March 25, 1987

801 N. Eleventh  
St. Louis, MO 63101

JOB #: 10224A/400001

ATTEN: Mr. Larry Oliver

D/A PROJECT #: 5060.10

Date of Report : May 11, 1987

D/A SAMPLE NUMBER

7084-102

**SAMPLE DESCRIPTION**

DC-GW-32

Sample Date	3/24/87
Extracted Date	3/27/87
Analysis Date	2/23/87

PHENOL	UG/L	<10
2-CHLOROPHENOL	UG/L	170
4-METHYLPHENOL	UG/L	68
2-METHYLPHENOL	UG/L	42
2-NITROPHENOL	UG/L	<50
2,4-DIMETHYLPHENOL	UG/L	360
2,4-DICHLOROPHENOL	UG/L	<10
4-CHLORO-3-METHYLPHENOL	UG/L	<10
2,4,6-TRICHLOROPHENOL	UG/L	<10
2,4,5-TRICHLOROPHENOL	UG/L	<50
2,4-DINITROPHENOL	UG/L	<50
4-NITROPHENOL	UG/L	<50
2-METHYL-4,6-DINITROPHENOL	UG/L	<50
PENTACHLOROPHENOL	UG/L	<50
BENZOIC ACID	UG/L	<50
NAPHTHALENE	UG/L	78
ACENAPHTHYLENE	UG/L	<10
ACENAPHTHENE	UG/L	<10
FLUORENE	UG/L	<10
PHENANTHRENE	UG/L	<10
ANTHRACENE	UG/L	<10
FLUOROANTHENE	UG/L	<10
PYRENE	UG/L	<10
BENZO(a)ANTHRACENE	UG/L	<10
CHRYSENE	UG/L	<10
BENZO(b)FLUOROANTHENE	UG/L	<10
BENZO(k)FLUOROANTHENE	UG/L	<10
BENZO(a)PYRENE	UG/L	<10
INDENO(1,2,3-cd)PYRENE	UG/L	<10
DIBENZO(a,h)ANTHRACENE	UG/L	<10
BENZO(g,h,i)PERYLENE	UG/L	<10
2-METHYLNAPHTHALENE	UG/L	<10
2-CHLORONAPHTHALENE	UG/L	<10

\* as received basis

S343



# Daily Analytical Laboratories

1621 W. Candletree Drive Peoria, Illinois 61614  
Tel. (309) 692-5252

Eugene J. Daily, Chairman  
John P. Higgins, President  
Otis E. Michels, Vice President  
James F. Dallmeyer  
Laboratory Director

Sverdrup Corporation

DATE RECEIVED: March 25, 1987

801 N. Eleventh  
St. Louis, MO. 63101

JOB NO. 10224A/400001

ATTEN: Mr. Larry Oliver

D/A PROJECT #: 5060.10

D/A SAMPLE NUMBER

7084-102

SAMPLE DESCRIPTION

DCGW32

Sample Date	3/24/87
Extracted Date	3/26/87
Analysis Date	4/30/87

Alpha-BHC	UG/L	<0.05
Beta-BHC	UG/L	<0.05
Gamma-BHC (Lindane)	UG/L	<0.05
Delta-BHC	UG/L	<0.05
Heptachlor	UG/L	<0.05
Aldrin	UG/L	<0.05
Heptachlor epoxide	UG/L	<0.05
Endosulfan I	UG/L	<0.05
p,p'-DDE	UG/L	<0.10
Dieldrin	UG/L	<0.10
Endrin	UG/L	<0.10
Endosulfan II	UG/L	<0.10
p,p'-DDD	UG/L	<0.10
Endrin aldehyde	UG/L	<0.10
p,p'-DDT	UG/L	<0.10
Endosulfan sulfate	UG/L	<0.10
Alpha-chlordane	UG/L	<0.50
Gamma-chlordane	UG/L	<0.50
Methoxychlor *	UG/L	<0.50
Toxaphene	UG/L	<0.50
Arochlor 1016	UG/L	
Arochlor 1221	UG/L	
Arochlor 1232	UG/L	
Arochlor 1242	UG/L	
Arochlor 1248	UG/L	
Arochlor 1254	UG/L	
Arochlor 1260	UG/L	
PCB's (total)	UG/L	<1.0*

\* PCB total based on Aroclor 1254

\*\* Mix of Aroclors 1254 & 1260

J Estimated conc. below IEPA detection limits

All as received basis

+ second column confirmation.

S344

EXHIBIT "H"

0  
0  
0  
0  
-

S345

**RESULTS**

**INORGANICS**

003000

**S346**



Daily Analytical Laboratories

1625 W. Candace Drive Peoria, Illinois 61614  
Tel. (309) 685-0232

Eugene J. Daily, Chairman  
John P. Higgins, President  
Otis E. Michela, Vice President  
James F. Dallmeyer  
Laboratory Director

Sverdrup Corporation

DATE RECEIVED: January 30, 1987

801 N. Eleventh  
St. Louis, MO. 63101

JOB NO. 10224A/400001

D/A PROJECT #: 5060.10

ATTEN: Mr. Larry Oliver

DATE OF REPORT: March 23, 1987

D/A SAMPLE NO.

7030-11

SAMPLE DESCRIPTION

DCG537

SAMPLE DATE

01/27/87

ALUMINUM	MG/KG	8900
ANTIMONY	MG/KG	<0.6
ARSENIC	MG/KG	10.0
BARIUM	MG/KG	140
BERYLLIUM	MG/KG	0.38
CADMIUM	MG/KG	0.70
CHROMIUM	MG/KG	15
COBALT	MG/KG	13
COPPER	MG/KG	15
IRON	MG/KG	12000
LEAD	MG/KG	21
MANGANESE	MG/KG	470
MERCURY	MG/KG	<0.01
NICKEL	MG/KG	64
POTASSIUM	MG/KG	1700
SELENIUM	MG/KG	<0.5
SODIUM	MG/KG	1600
SILVER	MG/KG	0.30
THALLIUM	MG/KG	3.4
VANADIUM	MG/KG	36
ZINC	MG/KG	210
CALCIUM	MG/KG	6200
MAGNESIUM	MG/KG	4600
BORON	MG/KG	6.4
TIN	MG/KG	<1.0
CYANIDE	MG/KG	<0.3

003000

S347



**Daily Analytical Laboratories**

1621 W. Candace Drive Peoria, Illinois 61614  
Tel. (309) 688-6252

Eugene J. Daily, Chairman  
John P. Higgins, President  
Otis E. Michaels, Vice President  
James F. Dallmeyer  
Laboratory Director

Sverdrup Corporation

DATE RECEIVED: January 30, 1987

JOB NO. 10224A/400001

801 N. Eleventh  
St. Louis, MO. 63101

D/A PROJECT #: 5060.10

ATTEN: Mr. Larry Oliver DATE OF REPORT: March 23, 1987

D/A SAMPLE NO. 7030-07 7030-08 7030-09 7030-10

SAMPLE DESCRIPTION	DCG333	DCGB34	DCG435	DCG436
--------------------	--------	--------	--------	--------

SAMPLE DATE	01/26/87	01/26/87	01/26/87	01/26/87
-------------	----------	----------	----------	----------

ALUMINUM	MG/KG	11000	8000	47000	5000
ANTIMONY	MG/KG	<0.6	<0.6	<0.6	<0.6
ARSENIC	MG/KG	20.0	12.0	<0.5	7.5
BARIUM	MG/KG	140	220	150	77
BERYLLIUM	MG/KG	0.53	0.36	<0.20	<0.20
CADMIUM	MG/KG	0.49	1.5	0.07	0.35
CHROMIUM	MG/KG	19	14	<2.0	8.1
COBALT	MG/KG	6.3	5.0	3.5	2.8
COPPER	MG/KG	11	24	4.4	14
IRON	MG/KG	14000	15000	7000	7300
LEAD	MG/KG	17	41	7.2	9.5
MANGANESE	MG/KG	380	280	150	150
MERCURY	MG/KG	0.01	0.04	0.01	<0.01
NICKEL	MG/KG	18	15	12	12
POTASSIUM	MG/KG	2300	2300	970	1000
SELENIUM	MG/KG	<0.5	<0.5	<0.5	<0.5
SODIUM	MG/KG	3200	100	450	300
SILVER	MG/KG	0.80	0.50	<0.20	<0.20
THALLIUM	MG/KG	4.9	2.3	1.4	1.8
VANADIUM	MG/KG	35	30	<2.0	20
ZINC	MG/KG	44	120	31	45
CALCIUM	MG/KG	9900	4300	8100	7500
MAGNESIUM	MG/KG	5600	2900	3500	3400
BORON	MG/KG	3.6	6.0	4.1	4.2
TIN	MG/KG	<1.0	<1.0	<1.0	<1.0
CYANIDE	MG/KG	<0.2	<0.2	<0.3	<0.2

0000000000  
S348

**RESULTS**

**ORGANICS.**

803000.

**S349**

**DA****Daily Analytical Laboratories**1621 W. Candlers Drive Peoria, Illinois 61614  
Tel-(309) 692-5252

Eugene J. Daily, Chairman  
 John P. Higgins, President  
 Otis E. Michela, Vice President  
 James F. Dallmeyer  
 Laboratory Director

Sverdrup Corporation

DATE RECEIVED: January 30, 1987

801 N. Eleventh  
St. Louis, MO. 63101

JOB NO. 10224A/400001

D/A PROJECT #: 5060.10

ATTEN: Mr. Larry Oliver

DATE OF REPORT: March 23, 1987

D/A SAMPLE NUMBER

7030-07 7030-08 7030-09 7030-10

SAMPLE DESCRIPTION

DCG333 DCGB34 DCG435 DCG436

Sample Date	1/26/87	1/26/87	1/26/87	1/26/87
Analysis Date	2/27/87	2/27/87	2/24/87	2/12/87

CHLOROMETHANE	UG/KG	<10	<10	<10
BROMOMETHANE	UG/KG	<10	<10	<10
VINYL CHLORIDE	UG/KG	<10	<10	<10
CHLOROETHANE	UG/KG	<10	<10	<10
METHYLENE CHLORIDE	UG/KG	19	16	20B
1,1-DICHLOROETHENE	UG/KG	<5	<5	<5
1,1-DICHLOROETHANE	UG/KG	<5	<5	<5
tr-1,2-DICHLOROETHENE	UG/KG	<5	<5	<5
CHLOROFORM	UG/KG	<5	<5	<5
1,2-DICHLOROETHANE	UG/KG	<5	<5	<5
1,1,1-TRICHLOROETHANE	UG/KG	<5	<5	<5
CARBON TETRACHLORIDE	UG/KG	<5	<5	<5
DICHLOROBROMOMETHANE	UG/KG	<5	<5	<5
1,2-DICHLOROPROPANE	UG/KG	<5	<5	<5
tr-1,3-DICHLOROPROPENE	UG/KG	<5	<5	<5
TRICHLOROETHENE	UG/KG	<5	<5	<5
BENZENE	UG/KG	10	<5	<5
CHLORODIBROMOMETHANE	UG/KG	<5	<5	<5
cis-1,3-DICHLOROPROPENE	UG/KG	<5	<5	<5
1,1,2-TRICHLOROETHANE	UG/KG	<5	<5	<5
2-CHLOROETHYL VINYL ETHER	UG/KG	<5	<5	<5
BROMOFORM	UG/KG	<5	<5	<5
1,1,2,2-TETRACHLOROETHANE	UG/KG	<5	<5	<5
TETRACHLOROETHENE	UG/KG	<5	<5	<5
TOLUENE	UG/KG	<5	<5	<5
CHLOROBENZENE	UG/KG	1500	<5	38
ETHYLBENZENE	UG/KG	<5	<5	<5
XYLENE (TOTAL)	UG/KG	<15	<15	<15
ACETONE	UG/KG	2900	<10	1500
CARBON DISULFIDE	UG/KG	<10	<10	<10
2-BUTANONE	UG/KG	<10	<10	12
VINYL ACETATE	UG/KG	<10	<10	<10
4-METHYL-2-PENTANONE	UG/KG	<10	<10	<10
2-HEXANONE	UG/KG	<10	<10	<10
STYRENE	UG/KG	<10	<10	<10

\* as received basis

S350

000000

**DA** Daily Analytical Laboratories  
 1821 W. Candletree Drive • Peoria, Illinois 61614  
 Tel. (309) 692-5252

Eugene J. Daily, Chairman  
 John P. Higgins, President  
 Otis E. Michaels, Vice President  
 James F. Dallmeyer  
 Laboratory Director

Sverdrup Corporation

DATE RECEIVED: January 30, 1987

801 N. Eleventh  
 St. Louis, MO. 63101

JOB NO. 10224A/400001

ATTEN: Mr. Larry Oliver

DATE OF REPORT: March 23, 1987

D/A SAMPLE NUMBER

7030-11

SAMPLE DESCRIPTION

DCGS37

Sample Date	1/27/87
Analysis Date	2/26/87

CHLOROMETHANE	UG/KG	<1000
BROMOMETHANE	UG/KG	<1000
VINYL CHLORIDE	UG/KG	<1000
CHLOROETHANE	UG/KG	<1000
METHYLENE CHLORIDE	UG/KG	1000
1,1-DICHLOROETHENE	UG/KG	<500
1,1-DICHLOROETHANE	UG/KG	<500
tr-1,2-DICHLOROETHENE	UG/KG	<500
CHLOROFORM	UG/KG	<500
1,2-DICHLOROETHANE	UG/KG	<500
1,1,1-TRICHLOROETHANE	UG/KG	<500
CARBON TETRACHLORIDE	UG/KG	<500
DICHLOROBROMOMETHANE	UG/KG	<500
1,2-DICHLOROPROPANE	UG/KG	<500
tr-1,3-DICHLOROPROPENE	UG/KG	<500
TRICHLOROETHENE	UG/KG	960
BENZENE	UG/KG	11000
CHLORODIBROMOMETHANE	UG/KG	<500
cis-1,3-DICHLOROPROPENE	UG/KG	<500
1,1,2-TRICHLOROETHANE	UG/KG	<500
2-CHLOROETHYL VINYLETHER	UG/KG	<500
BROMOFORM	UG/KG	<500
1,1,2,2-TETRACHLOROETHANE	UG/KG	<500
TETRACHLOROETHENE	UG/KG	6400
TOLUENE	UG/KG	52000
CHLOROBENZENE	UG/KG	2800
ETHYLBENZENE	UG/KG	1700
XYLENE (TOTAL)	UG/KG	3900
ACETONE	UG/KG	1600
CARBON DISULFIDE	UG/KG	<1000
2-BUTANONE	UG/KG	3000
VINYL ACETATE	UG/KG	<1000
4-METHYL-2-PENTANONE	UG/KG	<1000
2-HEXANONE	UG/KG	<1000
STYRENE	UG/KG	<1000

\* as received basis

S351

**DA****Daily Analytical Laboratories**1621 W. Candeetree Drive Peoria, Illinois 61614  
Tel. (309) 692-5252

Eugene J. Dailey, Chairman  
 John P. Higgins, President  
 Otis E. Michele, Vice President  
 James F. Dallmeyer  
 Laboratory Director

Sverdrup Corporation

DATE RECEIVED: January 30, 1987

801 N. Eleventh  
St. Louis, MO. 63101

JOB NO. 10224A/400001

D/A PROJECT #: 5060.10

ATTEN: Mr. Larry Oliver

DATE OF REPORT: March 23, 1987

D/A SAMPLE NUMBER

7030-07 7030-08 7030-09

SAMPLE DESCRIPTION

DCG333 DCGB34 DCG435

Sample Date	1/26/87	1/26/87	2/16/87
Extracted Date	2/9/87	2/9/87	2/9/87
Analysis Date	2/23/87	2/23/87	2/23/87

BIS(2-CHLOROETHYL)ETHER	UG/KG	<330	<330	<330
1,3-DICHLOROBENZENE	UG/KG	<330	<330	<330
1,4-DICHLOROBENZENE	UG/KG	<330	<330	730
1,2-DICHLOROBENZENE	UG/KG	<330	<330	<330
BIS(2-CHLOROISOPROPYL)ETHER	UG/KG	<330	<330	<330
N-NITROSODI-N-PROPYLAMINE	UG/KG	<330	<330	<330
HEXACHLOROETHANE	UG/KG	<330	<330	<330
NITROBENZENE	UG/KG	<330	<330	<330
ISOPHORONE	UG/KG	<330	<330	<330
BIS(2-CHLOROETHOXY)METHANE	UG/KG	<330	<330	<330
1,2,4-TRICHLOROBENZENE	UG/KG	<330	<330	<330
HEXACHLOROBUTADIENE	UG/KG	<330	<330	<330
HEXACHLOROCYCLOPENTADIENE	UG/KG	<330	<330	<330
DIMETHYL PHTHALATE	UG/KG	<330	<330	<330
2,6-DINITROTOLUENE	UG/KG	<330	<330	<330
2,4-DINITROTOLUENE	UG/KG	<330	<330	<330
4-CHLOROPHENYL PHENYL ETHER	UG/KG	<330	<330	<330
DIETHYL PHTHALATE	UG/KG	<330	<330	<330
N-NITROSODIPHENYLAMINE	UG/KG	<330	<330	<330
4-BROMOPHENYL PHENYL ETHER	UG/KG	<330	<330	<330
HEXACHLOROBENZENE	UG/KG	<330	<330	<330
DI-N-BUTYL PHTHALATE	UG/KG	<330	<330	<330
BUTYLBENZYL PHTHALATE	UG/KG	<330	<330	<330
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	<330	<330	320J
3,3-DICHLOROBENZIDINE	UG/KG	<660	<660	<660
DI-N-OCTYL PHTHALATE	UG/KG	<330	<330	<330

## OTHERS :

BENZYL ALCOHOL	UG/KG	<330	<330	<330
4-CHLOROANILINE	UG/KG	<330	<330	<330
2-NITROANILINE	UG/KG	<1600	<1600	<1600
3-NITROANILINE	UG/KG	<1600	<1600	<1600
4-NITROANILINE	UG/KG	<1600	<1600	<1600
DIBENZOFURAN	UG/KG	<330	<330	<330

\* as received basis

S352

**DA**

Daily Analytical Laboratories

1621 W. Candlers Drive • Peoria, Illinois 61614  
Tel. (309) 662-5252

Eugene J. Daily, Chairman  
 John P. Higgins, President  
 Otis E. Michele, Vice President  
 James F. Dallmeyer—  
 Laboratory Director

Sverdrup Corporation

DATE RECEIVED: January 30, 1987

801 N. Eleventh  
St. Louis, MO. 63101

JOB NO. 10224A/400001

D/A PROJECT #: 5060.10

ATTEN: Mr. Larry Oliver

DATE OF REPORT: March 23, 1987

D/A SAMPLE NUMBER

7030-10 7030-11

## SAMPLE DESCRIPTION

DCG436 DCG537

Sample Date	1/26/87	1/27/87
Extracted Date	2/9/87	2/9/87
Analysis Date	2/23/87	2/23/87

BIS(2-CHLOROETHYL)ETHER	UG/KG	<330	<3300
1,3-DICHLOROBENZENE	UG/KG	<330	<3300
1,4-DICHLOROBENZENE	UG/KG	580	3300
1,2-DICHLOROBENZENE	UG/KG	<330	<3300
BIS(2-CHLOROISOPROPYL)ETHER	UG/KG	<330	<3300
N-NITROSODI-N-PROPYLAMINE	UG/KG	<330	<3300
HEXACHLOROETHANE	UG/KG	<330	<3300
NITROBENZENE	UG/KG	<330	<3300
ISOPHORONE	UG/KG	<330	<3300
BIS(2-CHLOROETHOXY)METHANE	UG/KG	<330	<3300
1,2,4-TRICHLOROBENZENE	UG/KG	<330	9400
HEXACHLOROBUTADIENE	UG/KG	<330	<3300
HEXACHLOROCYCLOPENTADIENE	UG/KG	<330	<3300
DIMETHYL PHTHALATE	UG/KG	<330	<3300
2,6-DINITROTOLUENE	UG/KG	<330	<3300
2,4-DINITROTOLUENE	UG/KG	<330	<3300
4-CHLOROPHENYL PHENYL ETHER	UG/KG	<330	<3300
DIETHYL PHTHALATE	UG/KG	<330	<3300
N-NITROSODIPHENYLAMINE	UG/KG	<330	85000
4-BROMOPHENYL PHENYL ETHER	UG/KG	<330	<3300
HEXACHLOROBENZENE	UG/KG	<330	<3300
DI-N-BUTYL PHTHALATE	UG/KG	<330	<3300
BUTYLBENZYL PHTHALATE	UG/KG	<330	<3300
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	<330	<3300
3,3-DICHLOROBENZIDINE	UG/KG	<660	<6600
DI-N-OCTYL PHTHALATE	UG/KG	<330	<3300

## OTHERS :

BENZYL ALCOHOL	UG/KG	<330	38000
4-CHLOROANILINE	UG/KG	<330	18000
2-NITROANILINE	UG/KG	<1600	<16000
3-NITROANILINE	UG/KG	<1600	<16000
4-NITROANILINE	UG/KG	<1600	<16000
DIBENZOFURAN	UG/KG	<330	<3300



# Daily Analytical Laboratories

1621 W. Candace Drive Peoria, Illinois 61614  
Tel. (309) 692-9252

Eugene J. Dally, Chairman  
John P. Higgins, President  
Otto E. Michale, Vice President  
James F. Dallmeyer -  
Laboratory Director

Sverdrup Corporation

DATE RECEIVED: January 30, 1987

801 N. Eleventh  
St. Louis, MO 63101

JOB #: 10224A/400001

Attn: Mr. Larry Oliver

D/A PROJECT #: 5060-10

Date of Report : March 23, 1987

D/A SAMPLE NUMBER	7030-07	7030-08	7030-09
-------------------	---------	---------	---------

SAMPLE DESCRIPTION	DCG333	DCGB34	DCG435
--------------------	--------	--------	--------

Sample Date	2/16/87	2/16/87	2/16/87
Extracted Date	2/9/87	2/9/87	2/9/87
Analysis Date	2/23/87	2/23/87	2/23/87

PHENOL	UG/KG	<330	<330
2-CHLOROPHENOL	UG/KG	<330	<330
4-METHYLPHENOL	UG/KG	<330	<330
2-METHYLPHENOL	UG/KG	<330	<330
2-NITROPHENOL	UG/KG	<1600	<1600
2,4-DIMETHYLPHENOL	UG/KG	<330	<330
2,4-DICHLOROPHENOL	UG/KG	<330	<330
4-CHLORO-3-METHYLPHENOL	UG/KG	<330	<330
2,4,6-TRICHLOROPHENOL	UG/KG	<330	<330
2,4,5-TRICHLOROPHENOL	UG/KG	<1600	<1600
2,4-DINITROPHENOL	UG/KG	<1600	<1600
4-NITROPHENOL	UG/KG	<1600	<1600
2-METHYL-4,6-DINITROPHENOL	UG/KG	<1600	<1600
PENTACHLOROPHENOL	UG/KG	<1600	<1600
BENZOIC ACID	UG/KG	<1600	<1600

NAPHTHALENE	UG/KG	<330	<330
ACENAPHTHYLENE	UG/KG	<330	<330
ACENAPHTHENE	UG/KG	<330	<330
FLUORENE	UG/KG	<330	<330
PHENANTHRENE	UG/KG	<330	<330
ANTHRACENE	UG/KG	<330	<330
FLUOROANTHENE	UG/KG	<330	<330
PYRENE	UG/KG	<330	<330
BENZO(a)ANTHRACENE	UG/KG	<330	<330
CHRYSENE	UG/KG	<330	<330
BENZO(b)FLUOROANTHENE	UG/KG	<330	<330
BENZO(k)FLUOROANTHENE	UG/KG	<330	<330
BENZO(a)PYRENE	UG/KG	<330	<330
INDENO(1,2,3-cd)PYRENE	UG/KG	<330	<330
DIBENZO(a,h)ANTHRACENE	UG/KG	<330	<330
BENZO(g,h,i)PERYLENE	UG/KG	<330	<330
2-METHYLNAPHTHALENE	UG/KG	<330	<330
2-CHLORONAPHTHALENE	UG/KG	<330	<330

\* as received basis

S354



# Daily Analytical Laboratories

1621 W. Candlers Drive Peoria, Illinois 61614  
Tel. (309) 692-5252

Eugene J. Daily, Chairman  
John P. Higgins, President  
Otis E. Michaels, Vice President  
James F. Dallmeyer  
Laboratory Director

Sverdrup Corporation

801 N. Eleventh  
St. Louis, MO 63101

Attn: Mr. Larry Oliver

DATE RECEIVED: January 30, 1987

JOB #: 10224A/400001

D/A PROJECT #: 5060.10

Date of Report : March 23, 1987

D/A SAMPLE NUMBER

7030-10 7030-11

SAMPLE DESCRIPTION

DCG436 DCG537

Sample Date	2/16/87	2/16/87
Extracted Date	2/9/87	2/9/87
Analysis Date	2/23/87	2/23/87

PHENOL	UG/KG	<330	97000
2-CHLOROPHENOL	UG/KG	<330	<3300
4-METHYLPHENOL	UG/KG	<330	7600
2-METHYLPHENOL	UG/KG	<330	<3300
2-NITROPHENOL	UG/KG	<1600	<16000
2,4-DIMETHYLPHENOL	UG/KG	<330	<3300
2,4-DICHLOROPHENOL	UG/KG	<330	37000
4-CHLORO-3-METHYLPHENOL	UG/KG	<330	<3300
2,4,6-TRICHLOROPHENOL	UG/KG	<330	<3300
2,4,5-TRICHLOROPHENOL	UG/KG	<1600	<16000
2,4-DINITROPHENOL	UG/KG	<1600	<16000
4-NITROPHENOL	UG/KG	<1600	<16000
2-METHYL-4,6-DINITROPHENOL	UG/KG	<1600	<16000
PENTACHLOROPHENOL	UG/KG	<1600	<16000
BENZOIC ACID	UG/KG	<1600	<16000

NAPHTHALENE	UG/KG	<330	310000
ACENAPHTHYLENE	UG/KG	<330	<3300
ACENAPHTHENE	UG/KG	<330	<3300
FLUORENE	UG/KG	<330	<3300
PHENANTHRENE	UG/KG	<330	20000
ANTHRACENE	UG/KG	<330	<3300
FLUOROANTHENE	UG/KG	<330	<3300
PYRENE	UG/KG	<330	14000
BENZO(a)ANTHRACENE	UG/KG	<330	7400
CHRYSENE	UG/KG	<330	19000
BENZO(b)FLUOROANTHENE	UG/KG	<330	4200
BENZO(k)FLUOROANTHENE	UG/KG	<330	<3300
BENZO(a)PYRENE	UG/KG	<330	6700
INDENO(1,2,3-cd)PYRENE	UG/KG	<330	<3300
DIBENZO(a,h)ANTHRACENE	UG/KG	<330	<3300
BENZO(g,h,i)PERYLENE	UG/KG	<330	<16000
2-METHYLNAPHTHALENE	UG/KG	<330	16000
2-CHLORONAPHTHALENE	UG/KG	<330	<3300

\* as received basis



Daily Analytical Laboratories

1621 W. Candletree Drive Peoria, Illinois 61614  
Tel. (309) 693-9252

Eugene J. Daily, Chairman  
John P. Higgins, President  
Otis E. Michels, Vice President  
James F. Dallmeyer  
Laboratory Director

Sverdrup Corporation

DATE RECEIVED: January 30, 1987

801 N. Eleventh  
St. Louis, MO. 63101

JOB NO. 10224A/400001

D/A PROJECT #: 5060.10

ATTEN: Mr. Larry Oliver

DATE OF REPORT: April 3, 1987

D/A SAMPLE NUMBER

7030-07 7030-08 7030-09

SAMPLE DESCRIPTION

DCG333 DCGB34 DCG435

Sample Date	1/30/87	1/30/87	1/30/87
Extracted Date	2/9/87	2/9/87	2/9/87
Analysis Date	3/13/87	3/13/87	3/13/87

Alpha-BHC	UG/KG	36+	<8	<8
Beta-BHC	UG/KG	<80	<8	<8
Gamma-BHC (Lindane)	UG/KG	<8	<8	<8
Delta-BHC	UG/KG	<8	<8	<8
Heptachlor	UG/KG	<10	<8	<8
Aldrin	UG/KG	<8	<8	<8
Heptachlor epoxide	UG/KG	<15	<8	<8
Endosulfan I	UG/KG	<12	<8	<8
p,p'-DDE	UG/KG	<30	<16	<16
Dieldrin	UG/KG	<24	<16	<16
Endrin	UG/KG	<120	<16	<16
Endosulfan II	UG/KG	<60	<16	<16
p,p'-DDD	UG/KG	<80	<16	<16
Endrin aldehyde	UG/KG	<70	<16	<16
p,p'-DDT	UG/KG	<220	<16	<16
Endosulfan sulfate	UG/KG	<120	<16	<16
Alpha-chlordane	UG/KG	<50	<80	<80
Gamma-chlordane	UG/KG	<30	<80	<80
Methoxychlor	UG/KG	<550	<80	<80
Toxaphene	UG/KG	<80	<80	<80
Arochlor 1016	UG/KG			
Arochlor 1221	UG/KG			
Arochlor 1232	UG/KG			
Arochlor 1242	UG/KG			
Arochlor 1248	UG/KG			
Arochlor 1254	UG/KG			
Arochlor 1260	UG/KG			
PCB's (total)	UG/KG	1600**	<160*	120J**

\* PCB total based on Arochlor 1254

\*\* Mix of Aroclors 1254 & 1260

J Estimated conc. below IEPA detection limits

All as received basis

+ second column confirmation.